

Amendments to the Claims

1. (currently amended) A product produced by the process comprising the steps of:

applying a layer of photo-sensitized epoxy to the first side of a substrate having a first and second side, wherein the substrate is at least partially transparent to light to which the photo-sensitized epoxy is sensitive;

~~exposing selected regions of varying thickness within the layer with a dose of light incident upon the second side of the substrate sufficient to permit polymerization of the selected regions at least one region within the layer of photo-sensitized epoxy with light incident upon the second side of the substrate sufficient to produce at least one region of polymerization of varying thickness within the layer of photo-sensitized epoxy, such that upon removal of non-polymerized regions of the layer, following polymerization of the selected regions one region, the resulting three-dimensional structure has a varying thickness and varying topography.~~

2. (original) The product of claim 1, wherein the polymerized regions have a continuously varying thickness and the three-dimensional structure has a smoothly varying topography.

3. (currently amended) A three-dimensional article, comprising:

a substrate having a first side and a second side;

~~a photo-sensitized epoxy layer applied on the first side of the substrate, wherein selected regions of the epoxy layer have been exposed to a dose of light incident on the second side of the substrate sufficient to permit polymerization of the selected regions wherein the substrate is at least partially transparent to light to which the photo-sensitized epoxy is sensitive, wherein the photo-sensitized epoxy layer has been exposed to light incident on the second side of the substrate sufficient to produce at least one region of polymerization of varying thickness within the layer of photo-sensitized epoxy, with non-polymerized portions of the layer having been removed following polymerization of the selected regions one region, to produce a resulting three-dimensional structure with varying thickness and a varying topography.~~

4. (original) A product of claim 3, wherein the thickness is continuously varying and the topography is smoothly varying.

5. (currently amended) A three-dimensional article,

comprising:

a substrate having a first side and a second side;
a negative photo-sensitized epoxy layer applied on the first side of the substrate, wherein the substrate is at least partially transparent to light to which the photo-sensitive epoxy is sensitive, and then processed, including exposure ~~of at least portions of the layer~~ of the photo-sensitive epoxy layer by light incident on the second side of the substrate, to produce at least one region of polymerization of varying thickness within the epoxy layer to produce a resulting, resulting in a three-dimensional structure with varying thickness and a varying topography following removal of non-polymerized regions of the epoxy layer.

6. (original) An article of claim 5, wherein the three-dimensional structure is at its thickest part several times thicker than 100 micrometers.

7. (original) An article of claim 5, wherein the three-dimensional structure has a continuously varying thickness and a smoothly varying topography.